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Reaction of 2-tert-butoxy-4,5-benzo--,3,2-dioxaphospholane with tribromoacetaldehyde

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Abstract

The reaction of 2-tert-butoxy-4,5-benzo-1,3,2-dioxaphospholane with tribromo-acetaldehyde proceeds by initial halophilic attack on the bromine atom, leading to a product with retention of the P-Br bond (pyrocatechol bromophosphate) and an anion exchange product (pyrocatechol dibromovinylphosphate), and by initial attack at the carbon atom of the C=O group, which is accompanied by the elimination of isobutylene to form an α-hydroxyphosphonate. © 1990 Plenum Publishing Corporation.

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